DEPARTMENT OF THE ARMY
CHICAGO DISTRICT, CORPS OF ENGINEERS
219 SOUTH DEARBORN STREET
CHICAGO, ILLINOIS 60604

NCCOD-P
4477305

22 March 1974

Mr. Donald A. Wallgren
Federal Activities Coordination Branch
Surveillance and Analysis Division
U. S. Environmental Protection Agency
One North Wacker Drive
Chicago, Illinois 60606

Dear Mr. Wallgren:

U. S. Steel Corporation, Pittsburgh, Pennsylvania, has submitted an application for a Department of the Army permit to conduct maintenance dredging at the Gary Works Plant, Gary, Indiana.

We will be issuing a public notice for the proposed work very shortly. To provide you with advance notice of the proposed dredging, inclosed are copies of the drawings and a bottom sediment analysis which we requested, of areas to be dredged.

Sincerely yours,

JAMES P. JONES
Chief, Operations Division

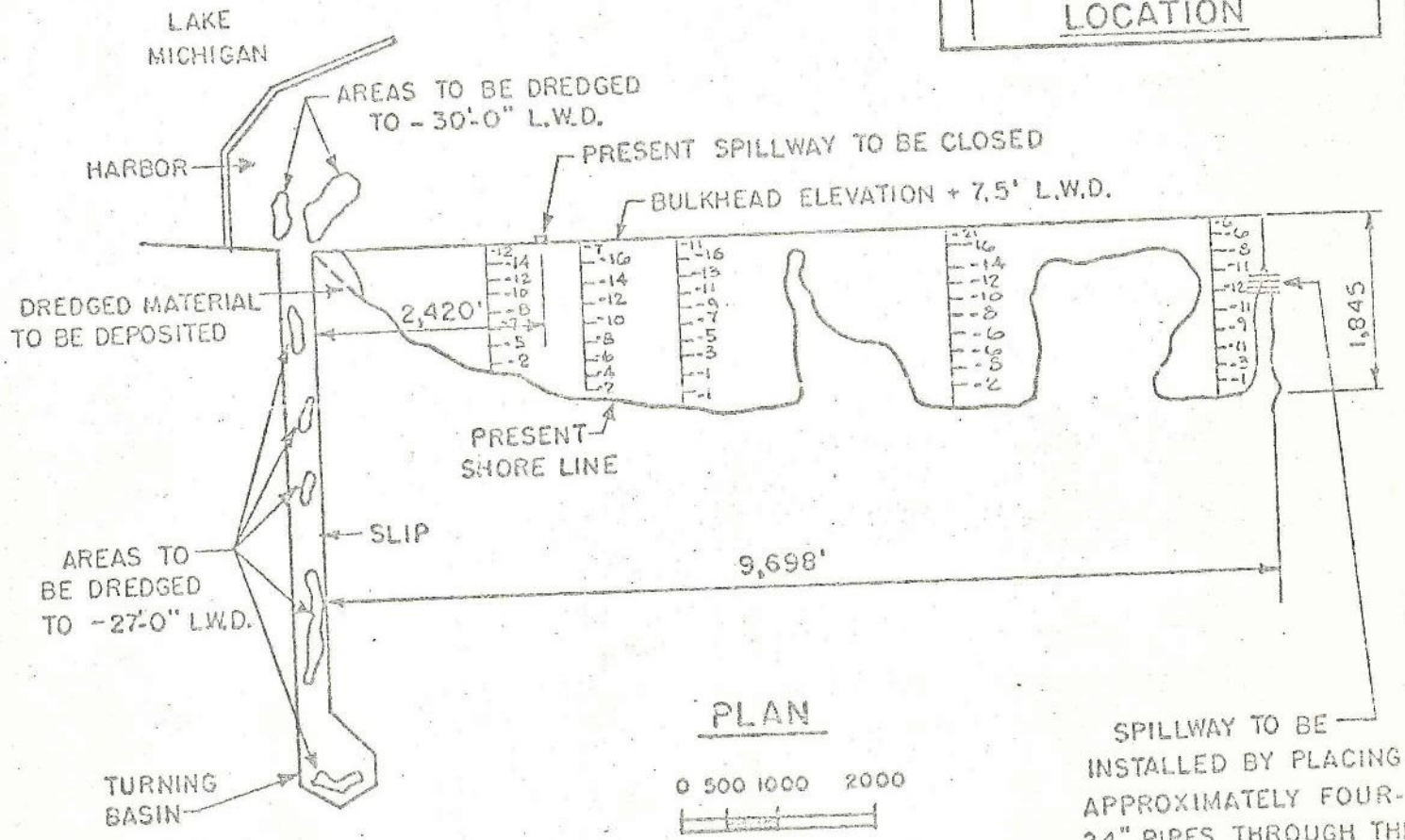
2 Incl
1. Drawings
2. Analysis

N
4

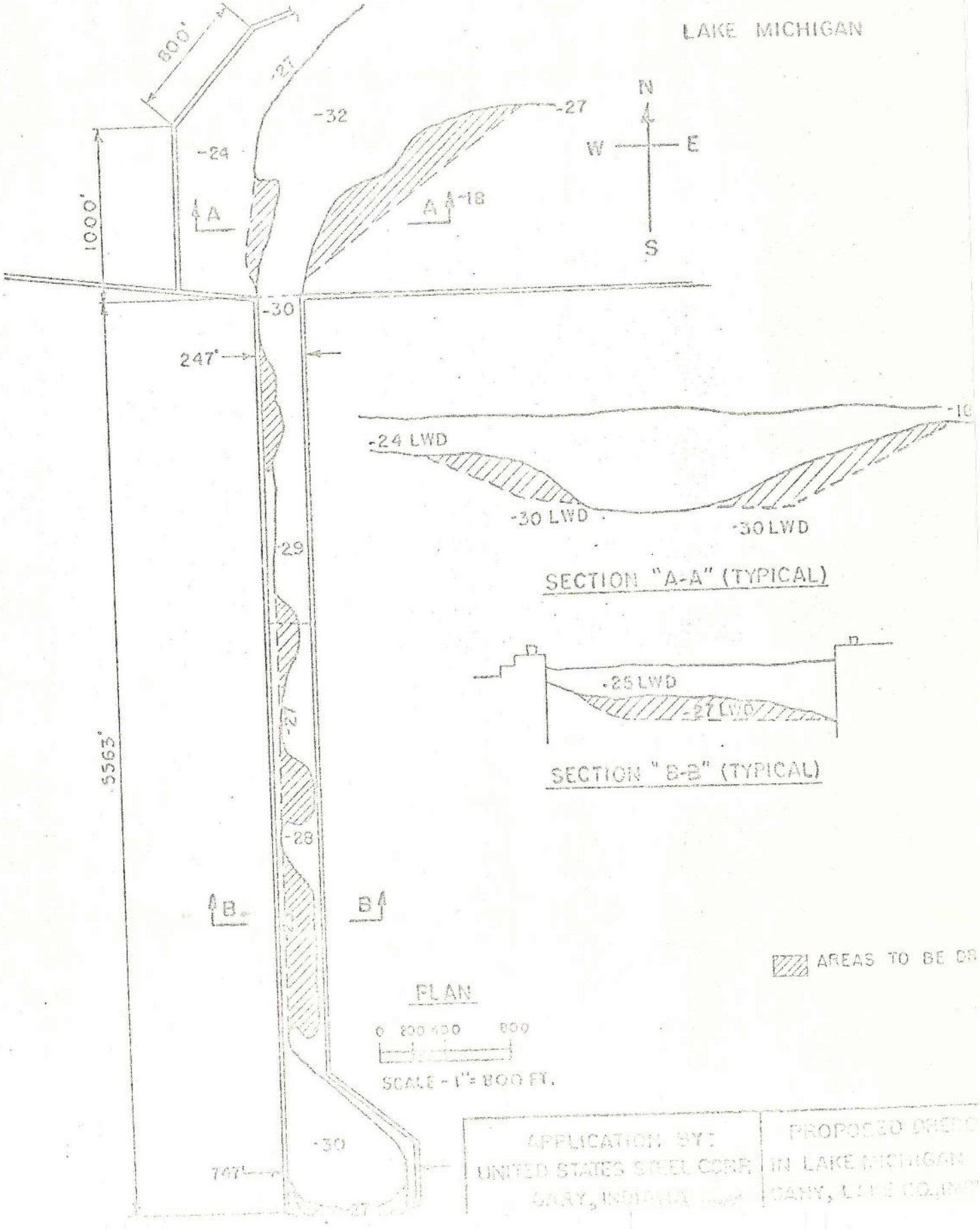
LAKE MICHIGAN

ALL ELEVATIONS AND SOUNDINGS ARE IN FEET AND REFER TO LOW WATER DATUM FOR LAKE MICHIGAN ELEVATION 576.8 FEET I.C.L.D. (1955)

APPROXIMATELY 60,000 CUBIC YARDS TO BE DREDGED & DEPOSITED BEHIND BULKHEAD AS SHOWN



APPLICATION BY:	PROPOSED DREDGING
UNITED STATES STEEL CORP GARY, INDIANA	IN LAKE MICHIGAN AT GARY, LAKE CO., INDIANA


LAKE MICHIGAN
600'
-27
-32
-27
-24
A
A
-18
1000'
N
W
E
S
-30
247'
-10
-24 LWD
-30 LWD
-30 LWD
-29
SECTION "A-A" (TYPICAL)
-25 LWD
-27 LWD
-27
5563'
-28
SECTION "B-B" (TYPICAL)
B
B
AREAS TO BE DR
PLAN
0 800 400 800
SCALE - 1" = 800 FT.
-30
747'
-27
APPLICATION BY:
UNITED STATES STEEL CORP.
GARY, INDIANA
PROPOSED DRED
IN LAKE MICHIGAN
GARY, LAKE CO., IN

UNITED STATES STEEL CORPORATION
GARY WORKS WATER QUALITY CONTROL LABORATORY
COKE AND CHEMICALS DIVISION

Harbor and Slip Bottom Samples taken by Demos and Moore

Identity of Sampling Point		Sample #1	#2	#4	#5	#6	#7	
Date Sample Obtained		2-12-74	2-12-74	2-13-74	2-13-74	2-13-74	2-13-74	
Date Sample Received at Laboratory								
Type of Sample								
Frequency of Sampling								
Flow m.g.d.								
ANALYSIS	ANALYST	ppm*	ppm*	ppm*	ppm*	ppm*	ppm*	ppm*
Temperature, °C								
pH Value								
Biochemical Oxygen Demand								
Chemical Oxygen Demand		42,034	17,208	25,920	12,646	40,837	30,606	
Dissolved Oxygen								
Phenols, ppb		560	878	938	913	711	835	
Cyanides								
Oils and Greases	1500	780	510	1,277	287	990	310	
Suspended Solids								
Dissolved Solids								
Settleable Solids, ml/l								
Total Solids Wt. %		69.8	80.1	79.6	78.9	69.3	71.5	
Ammonia-N (NH_3-N)		97.6	40.2	35.1	47.2	148.2	131.9	
Organic - N								
Sulfate ($SO_4^=$)								
Chloride (Cl^-)								
Conductivity umhos/cm@25°C								
Iron (Total) Wt. %		3.26	2.05	0.91	0.77	1.44	1.42	
Color (True), units								
Fecal Strep. n/100 ml								
Coliforms n/100 ml								
Volatile Solids Wt. %		3.6	3.3	0.9	0.9	3.1	2.8	
Phosphate		1.09	0.82	2.07	2.93	0.96	1.16	

STATE OF INDIANA

INDIANAPOLIS 46206

1330 West Michigan Street
633-4120

STREAM POLLUTION CONTROL BOARD

October 9, 1973

Mr. H. J. Dunsmore
Director - Environmental Control
U. S. Steel Corporation
600 Grant Street
Pittsburgh, Pennsylvania 15230

Dear Mr. Dunsmore:

Re: Dredging, Slip and Harbor
U. S. Steel, Gary, Indiana

We have examined your application for permission to dredge the slip and harbor at your Gary, Indiana works. The spoil material would approximate 60,000 cubic yards of sand and clay and would be deposited behind a bulkhead along the shore line of Lake Michigan, immediately to the east of the slip.

We have no objections to the dredging operation but must insist that the operations be conducted by hydraulic cutter head style dredge with the spoil material transported by pipeline to the proposed fill area. We will not permit use of clam shell buckets nor the use of dump bottom barges. Approval must also be obtained from the Department of Natural Resources. It is your responsibility to determine if an NPDES Permit is required for this discharge.

We also ask that a daily sample of the water returning through the spillway be sampled and an analysis be run for oil, free iron, and suspended solids, and filed monthly with our office.

Please submit the details of the dredging procedures to this office for clearance before dredging commences.

Very truly yours,

Oral H. Hert

Oral H. Hert
Technical Secretary

RJCleaton/cab
cc: Department of Natural Resources
Corps of Engineers

NCCOD-P

13 February 1974

ENVIRONMENTAL IMPACT STATEMENT DETERMINATION

Application Number: #4477305

Applicant: U. S. Steel Corporation

Location: Lake Michigan, Gary, Indiana

Work or Structure: Dredging (60,000 Cubic Yards)

Purpose: Maintenance

1 The environmental impact for the proposed maintenance dredging at the Gary Works Plant in Lake Michigan at Gary, Indiana has been evaluated as follows:

a. No effects on the following:
1. Historic values

b. Possible impact on the following:
1 Recreation: Depending upon the amount of water turbidity during dredging operations, water related recreational activities could be affected.

2. Aesthetics: Although the proposed maintenance should not produce significant visual effects, the effects of odor from dredged material may be a possibility.

c. Impact on the following:
1. Water Quality: The proposed maintenance dredging will be performed with a hydraulic dredge and water turbidity is expected to increase during the period of dredging. U. S. Steel has agreed to identify pollutants in the material to be dredged, water quality analysis will be conducted prior to dredging and a monitoring program will be in effect during the dredging operation and for 30 days after job completion. An existing spillway, elevation +2.0'LWD and 10 feet wide will be closed. Four 24" submerged pipes will be located opposite the end of the proposed disposal area. This combination should minimize turbidity at the effluent outfall. The effluent will be monitored by U. S. Steel during and after dredging operations, and necessary action will be taken to maintain an acceptable quality of effluent.

2. Fauna and Flora: Fauna and Flora existing in the proposed dredging area will be displaced. Since the dredged material will be deposited behind a retaining bulkhead authorized under a previous permit it is assumed Fauna and Flora will also be displaced in that area.

NCCOD-P 25 January 1974
Environmental Impact Statement Determination

2. The applicant has received a permit from the Indiana Department of Natural Resources and a letter of no objection from the Indiana 'tream Pollution Control Board subject to conditions included in the above discussion on water quality.

3. It is concluded that an environmental impact statement would be of little value in the review of this application

James M. Miller

JAMES M. MILLER
Colonel, Corps of Engineers
District Engineer